

Name _____

Earthworm Reactions

Acetone

1. Give examples of capital letters with the following types of symmetry:
 - Radial symmetry:
 - Bilateral symmetry:
 - Asymmetry:
2. Describe the procedure you would use to determine the location of an earthworm's sensory organs based on its reaction to acetone.
3. Write a hypothesis regarding the earthworm's reaction. Be as specific as possible.
4. What happens when you approach
 - the anterior end of the earthworm with the acetone?
 - the posterior end of the earthworm?
 - the middle of the earthworm?
5. Where do you think the sensory organs are located in the earthworm?
6. What type of symmetry does the earthworm have?

Oxygen

7. Imagine each of the rocks in the demonstration is actually a particle of soil. What is in-between each of the rocks/soil particles?

8. Where does an earthworm get its oxygen?

9. Now imagine it is raining hard. What happens to the spaces between the rocks/soil particles?

10. What came to the surface of the rocks/soil after the water was added and WHY?

11. When it rains outside, we see more worms on the ground and on the sidewalk. Why?